NC/QC/YD-W2/2019-20/SV-C1 Date: 02-05-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to Roads and Drains at ISSAC layout, Synika vihara layout and Vinayaka layout in ward no-02 of Yelahanka Sub division.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Y.R.Sridhar, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**161 min**	Shall not be less than 30 min
2	Final setting time	**259 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.78 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**1.91 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**27.91 N/Sq mm**	Shall not be less than 27 N/Sqmm

AE-2
A.E.E

AE-02

Page No. 1/1,

M.E, (Civil ...)

For Newzen Consultants Bangalore

Proprietor

NC/QC/YD-W2/2019-20/SV-PCC1 Date: 02-05-2019

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: Improvements to Roads and Drains at ISSAC layout, Synika vihara layout and Vinayaka layout in ward no-02 of Yelahanka Sub division.}

Ref.: Material testing/PMC/19-20,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Y.R.Sridhar, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	65.15	0 -20	30- 70
10mm	34.25	0 -5	10- 35
4.75mm	4.70	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	97.15	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	82.75	60-95	75-100	85-100	
01.18	61.20	30-70	55-90	75-100	
600.mic	58.40	15-34	35-59	60-79	
300.mic	13.25	5-20	8-30	12-40	
150.mic	8.10	0-10	0-10	0-10	

AE-2 A.E.E

AE-02

KIRAN. R
M.E, (Civil-Engg)

For Newzen Consultants Bangalore

Proprietor

NC/QC/YD-W2/2019-20/SV-C2 Date: 06-05-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to Roads and Drains at ISSAC layout, Synika vihara layout and Vinayaka layout in ward no-02 of Yelahanka Sub division.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Y.R.Sridhar, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**165 min**	Shall not be less than 30 min
2	Final setting time	**279 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.18 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**1.99 mm**	Shall not be more than 10 mm
5	Compressive strength b) 3 days (average of three results)	**29.78 N/Sq mm**	Shall not be less than 27 N/Sqmm

AE-2 A.E.E

AE-02

KIRAN. R
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For Newzen Consultants Bangalore
Proprietor

NC/QC/YD-W2/2019-20/SV-CA1 Date: 10-05-2019

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.

{Project*: Improvements to Roads and Drains at ISSAC layout, Synika vihara layout and Vinayaka layout in ward no-02 of Yelahanka Sub division.}

Ref.: Material testing/PMC/19-20,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Y.R.Sridhar, Bangalore.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	100.00	100.00	100.00
20 mm	98.10	85-100	90 - 100
10 mm	41.90	0 - 20	25 - 55
4.75 mm	5.05	0 - 5	0 - 10

TABLE 1.2 :

SL No	Test conducted	Results	Requirements as per IS:383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	21.84 %	Not to exceed 25 %
2.	Crushing value	28.37 %	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

AE-2 A.E.E

AE-02

KIRAN. R
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NC/QC/YD-W2/2019-20/SV-CB1A

Date: 13-06-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements to Roads and Drains at ISSAC layout, Synika vihara layout and Vinayaka layout in ward no-02 of Yelahanka Sub division.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Y.R.Sridhar, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{15}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	16-05-19	13-06-19	28	22500	400	17.78	17.41
	002	"	"	"	"	390	17.33	
	003	"	"	"	"	385	17.11	

AE-2 A.E.E

AE-02

KIRAN. R
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For Newzen Consultants Bangalore

Proprietor

NC/QC/YD-W2/2019-20/SV-CB2

Date: 10-06-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to Roads and Drains at ISSAC layout, Synika vihara layout and Vinayaka layout in ward no-02 of Yelahanka Sub division.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Y.R.Sridhar, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	03-06-19	10-06-19	07	22500	380	16.89	17.26
	002	"	"	"	"	395	17.56	
	003	"	"	"	"	390	17.33	

AE-2 A.E.E

AE-02

Page No. 1/1,

K.R
KIRAN. R
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For Newzen Consultants Bangalore
Proprietor

NC/QC/YD-W2/2019-20/SV-CB5

Date: 17-06-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to Roads and Drains at ISSAC layout, Synika vihara layout and Vinayaka layout in ward no-02 of Yelahanka Sub division.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Y.R.Sridhar, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	10-06-19	17-06-19	07	22500	385	17.11	17.04
	002	"	"	"	"	390	17.33	
	003	"	"	"	"	375	16.67	

AE-2
A.E.E

AE-02

Page No. 1/1,

KIRAN. R
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NC/QC/YD-W2/2019-20/SV-CB6

Date: 18-06-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to Roads and Drains at ISSAC layout, Synika vihara layout and Vinayaka layout in ward no-02 of Yelahanka Sub division.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Y.R.Sridhar, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	11-06-19	18-06-19	07	22500	380	16.89	17.11
	002	"	"	"	"	395	17.56	
	003	"	"	"	"	380	16.89	

AE-2 A.E.E

AE-02

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Proprietor

NC/QC/YD-W2/2019-20/SV-CB2A

Date: 01-07-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements to Roads and Drains at ISSAC layout, Synika vihara layout and Vinayaka layout in ward no-02 of Yelahanka Sub division.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Y.R.Sridhar, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	03-06-19	01-07-19	28	22500	510	22.67	22.15
	002	"	"	"	"	495	22.00	
	003	"	"	"	"	490	21.78	

AE-2
A.E.E

Checked by AE-02

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For Newzen Consultants Bangalore
Proprietor

NC/QC/YD-W2/2019-20/SV-CB2A

Date: 01-07-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements to Roads and Drains at ISSAC layout, Synika vihara layout and Vinayaka layout in ward no-02 of Yelahanka Sub division.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Y.R.Sridhar, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	03-06-19	01-07-19	28	22500	510	22.67	22.15
	002	"	"	"	"	495	22.00	
	003	"	"	"	"	490	21.78	

KIRAN R
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AE-2
A.E.E

Checked by AE-02

For Newzen Consultants Bangalore
Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187

NC/QC/YD-W2/2019-20/SV-CB4A

Date: 03-07-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements to Roads and Drains at ISSAC layout, Synika vihara layout and Vinayaka layout in ward no-02 of Yelahanka Sub division.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Y.R.Sridhar, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	05-06-19	03-07-19	28	22500	495	22.00	22.30
	002	"	"	"	"	510	22.67	
	003	"	"	"	"	500	22.22	

AE-2
A.E.E

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AE-01

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NC/QC/YD-W2/2019-20/SV-W1

Date: 29-06-2019

TEST REPORT ON WET MIX MACADAM MIX
(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvements to Roads and Drains at ISSAC layout, Synika vihara layout and Vinayaka layout in ward no-02 of Yelahanka Sub division.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Y.R.Sridhar, Bangalore.

TEST RESULTS

1. Gradation Test:
TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
45.00	**98.35**	95-100
26.50	---	-
22.40	**74.05**	60-80
11.20	**58.25**	40-60
4.75	**31.90**	25-40
2.36	**20.35**	15-30
0.600	**13.40**	8-22
0.075	**3.65**	0-5

AE-2
A.E.E

AE-02

K.R
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Date: 29-06-2019

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	27.45 %	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	25.97 %	Not more than 35.0 %
3.	Water absorption, %	0.38 %	Not more than 2.0 %
4.	Plasticity Index, %	NP	Not more than 6.0 %

AE-2 A.E.E

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For Newzen Consultants Bangalore
Proprietor

AE-02

NC/QC/YD-W2/2019-20/SV-BD1

Date: 04-07-2019

1. TEST REPORT ON BITUMEN SAMPLE:

Sub: Testing of Bitumen sample VG-30 Grade.
{Project*: Improvements to Roads and Drains at ISSAC layout, Synika vihara layout and Vinayaka layout in ward no-02 of Yelahanka Sub division.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Y.R.Sridhar, Bangalore.
Technical Reference: Ministry of Road Transport and Highways, V Revision, 2013 and IS 73: 1992.

TABLE 1.1 ;

SL No	Details	Test Results	Requirements as per I.S 73 –1992 Specifications
1.	Penetration at 25^0 C	**51.10^{0}C**	Min. 45
2.	Ductility Value at 25^0 C	**106.20 cm**	40
3.	Flash point	**240^0 C**	Minimum 220^0 C
4.	Softening point	**51.40^{0}C**	Min. 47

AE-2
A.E.E

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AE-02

NC/QC/YD-W2/2019-20/SV-DBM1

Date: 10-07-2019

1.TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for DBM mix sample.

{Project*: Improvements to Roads and Drains at ISSAC layout, Synika vihara layout and Vinayaka layout in ward no-02 of Yelahanka Sub division.}

Ref.: Material testing/PMC/19-20,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Y.R.Sridhar, Bangalore.

TEST RESULTS

A. Type of Construction : **Dense Graded Bituminous Macadam.**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **4.52 %**

2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-10 of MORTH Specfications-2013 DBM (Grading - 2)
37.5	**100**	100
26.5	**96.20**	90-100
19.0	**84.95**	71-95
13.20	**66.70**	56-80
4.75	**41.20**	38-54
2.36	**39.40**	28-42
0.300	**19.05**	7-21
0.075	**3.95**	2-8

AE-2
A.E.E

AE-02

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NC/QC/YD-W2/2019-20/SV-DS1

Date: 11-07-2019

1.TEST REPORT ON BITUMINOUS MIXES :
(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for DBM mix sample.
{Project*: Improvements to Roads and Drains at ISSAC layout, Synika vihara layout and Vinayaka layout in ward no-02 of Yelahanka Sub division.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Y.R.Sridhar, Bangalore.

TEST RESULTS

Table 1: Properties of DBM (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Dense Bituminous Macadam, Grade-2 as per M.o.R.T&H (IV Revision)-2001 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1260**	900
2	Marshall Flow at 60°C, mm.	**3.41**	2.0 - 4.0

AE-2 A.E.E

KIRAN. R
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AE-02

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NC/QC/YD-W2/2019-20/SV-BC1

Date: 11-07-2019

1.TEST REPORT ON BITUMINOUS MIXES :
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.
{Project*: Improvements to Roads and Drains at ISSAC layout, Synika vihara layout and Vinayaka layout in ward no-02 of Yelahanka Sub division.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Y.R.Sridhar, Bangalore.

TEST RESULTS

A. Type of Construction : **Bituminous Concrete**
1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.40 %**

2. **Gradation Test**
TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2)
19.0	100	100
13.2	97.90	90-100
9.5	88.40	70-88
4.75	61.25	53-71
2.36	51.60	42-58
1.18	44.65	34-48
0.600	31.05	26-38
0.300	23.40	18-28
0.150	17.15	12-20
0.075	8.70	4-10

AE-2
A.E.E

Page No. 1/1

AE-02

KIRAN. R
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NC/QC/YD-W2/2019-20/SV-BS1

Date: 12-07-2019

1.TEST REPORT ON BITUMINOUS MIXES :
(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for BC mix sample.
{Project*: Improvements to Roads and Drains at ISSAC layout, Synika vihara layout and Vinayaka layout in ward no-02 of Yelahanka Sub division.}

Ref.: Material testing/PMC/19-20,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Y.R.Sridhar, Bangalore.

TEST RESULTS

Table 1: Properties of BC (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Bituminous Concrete, Grade-2 as per M.o.R.T&H (V Revision)-2013 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1374**	900
2	Marshall Flow at 60°C, mm.	**3.17**	2.0 - 4.0

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AE-2
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AE-02

For Newzen Consultants Ban
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